SOURCE CODE: UR/0413/66/000/011/0073/0073 (A) ACC NR: AP6021448

INVENTORS: Korshak, V. V.; Vinogradova, S. V.; Siling, S. A.

ORG: none

TITLE: A method for obtaining heat-resisting polyarylates. Class 39, No. 182329

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 73

TOPIC TAGS: polyaryl plastic, dicarboxylic acid, formaldohydo, thermoplastic material, polymor, plastic, phonol

ABSTRACT: This Author Certificate presents a method for obtaining heat-resisting polyarylates by treating linear saturated thermoplastic polyarylates (based on bisphenols and dicarboxylic acids) with novolak or formaldohyde. To expand the assortment of heat-resisting materials, polyarylates based on phonolphthalein and dicarboxylic acids are used as linear saturated thermoplastic polyarylates.

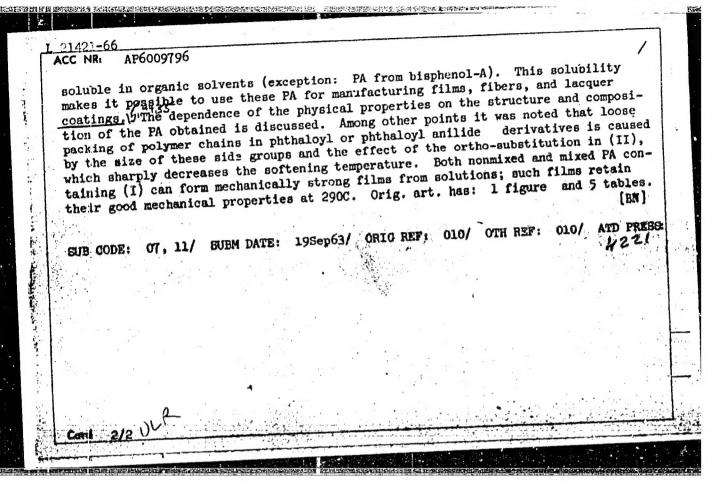
11/, SUBM DATE: 24May63 SUB CODE:

Card 1/1

678,673,073-9:547,281,1 UDC:

I Arg 1/1	ORG: none TITLE: A method for obtaining polyarylates. Class 39, No. 183935 [announced by Institute of Organo-elemental Compounde AN SSSR (Institut' elementoorganicheskikh soyedineniy AN SSSR)] SOUNCE: Izobret prom obraz tov zn, no. 14, 1966, 80 TOPIC TAGS: polyaryl dicarboxylic acid, phenol ABSTRACT: This Author Certificate presents a method for obtaining polyarylates based upon chloranhydrides of dicarboxylic acids and bis-phenols. To impart noncombustiupon chloranhydrides of dicarboxylic acids and bis-phenols. To impart noncombustiupon the polyarylates, 2-8 -chlorethyl-3,3-bis(4-hydroxyphenyl) phthalimidine is used as bis-phenol. SUB CODE: 11/ SUBM DATE: 29May65
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EVT(m)/EVP(j)/T/ETC(m)-6 UR/0062/66/000/002/0308/0314 21421-66 SOURCE CODE: ACC NRI AP6009796 AUTHOR: Vinogradova, S. V.; Salazkin, S. N.; Korshak, V. V. ORG: Institute of Heteroorganic Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR) TITLE: Heterochain polyesters. 62. Polyarylates from bisphenyldicarboxylic acids SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 308-314 TOPIC TAGS: aromatic polyester, polyarylate, bisphenyl dicarboxylic acid, dihydric phenol, heat resistant polymer, polymer solubility, polymer film ABSTRACT: The combination of high heat resistance and good mechanical properties with sclubility in organic solvents was the purpose of this study of polyarylates (PA), synthesized from a dihydric phenol and a bicyclic dicarboxylic aromatic acid. 4,4'- (I) or 2,2'-bisphenyldicarboxylic (II) or combinations of (I) and (II) acids were used as the bicyclic acid component, and bisphenol-A, phenolphthalein, phenolphthalein anilide, "phenoldiphenein" [2,2'-bis-(4-hydroxybenzoyl)bisphenyl] or xylenolphthalein were used as the phenolic component. Nonmixed and mixed PA were synthesized by equilibrium condensation in a nitrogen stream, in "Sovol" solution (Scvol_chlorinated bisphenyl). Only the acid components, i.e., (I), (II), or terephthalic acid, were used to prepare mixed PA. It was found that PA from (I) have a higher soltening temperature as compared with analogous polyterephthalates and are still IIDC:



VINOGRADOVA, S.V.; KORSHAK, V.V.; KORCHEVEY, M.G.

Copolymerization of allyl side chain containing unsaturated polyarylates with styrene. Vysokom. soed. 7 no.11:1284-888 N 165.

Copolymerization of allyl side chain-containing unsaturated polyarylates with methyl methacrylate. Ibid.: 1889-1893 (MIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted December 7, 1964.

KORSHAK, V.V.; RAFIKOV, S.R.; VINOGRADOVA, S.V.; FOMINA, Z.Ya.

Photochemical degradation of polyarylates in solution. Vysokom. soed. 7 no.11:1908-1912 N '65. (MIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted December 9, 1964.

VINCGRADOVA, S.V.: KORCHAK, V.T.; PRIDMAN, To.1.; ANDREYEVA, M.A.;
EARABCSHKINA, L.N.

Heat resistant electric insulation clustics on a polygrylate buse. Plast. massy. no.9:16-19 '65. (MIRA 18:9)

VINOGRADOVA, S.V.; ANDREYEVA, M.A.; DAVYDOVA, V.F.; KORSHAK, V.V.

Studying the possibilities of the hardening and processing in goods of thermosetting polyarylates. Plast. massy no.10:1-3 '65. (MIRA 18:10)

	A L 10190-66 EWT(m)/EWP(j)/T WW/RM ACC NR AP5026490 SOURCE CODE: UR/0286/65/000/020/0066/0066
i .	INVENTOR: Korshak, V. V.; Vinogradova, S. V.; Fomina, Z. Ya.
	ORG: none
•	TITLE: Preparative method for <u>polyaryl esters</u> . Class 39, No. 175656
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 66
	TOPIC TAGS: polyester plastic, heat resistant plastic, thermosetting material, exten, polyoyl plastic
	ABSTRACT: An Author Certificate has been issued for a preparative method for poly-
	impart thermosetting properties to the polyesters trihydric phenols, such as phloro- glucinol, are added to the reaction mixture. [SM]
· ·	SUB CODE: 0711/ SUBM DATE: 29May64/ ATD PRESS: 4/158
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	Card 1/2 UDC: 678.673
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KORSHAK, V.V.; VINOGRADOVA, S.V.; ANTONOVA ANTIPOVA, I.P.

Colored polyarylates based on some dihydroxyanthraquinones. Vysokom. soed. 7 no.9:1543-1548 S '65. (MIRA 18:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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		14.55	678.01:54+678.674
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TITLE: T	The high temperature	degradation of poly	dihydroxydiphenylfluorenters- nemical Transformation of Folymer
SOURCE:	Vysokomolekulyarnyye	e soyedineniya, v. 1	7, no. 9, 1965, 1614-1618
TOPIC TAC		tion, thermal oxidat	cion, organic compound, polymer/
investige work of 1 1965, 269 the temper of gas e	ated. This investige I. V. Zhuravleva, V. 9). The thermal degreerature region from 3 volution during degree	ation is an extension V. Rode, and S. R. radation and thermost to 5000 by 250 adation and thermoon	idation of polyarylate D-9 was on of the previously published Rafikov (Izv. AN SSSR, ser. khim exidation were carried out over intervals. Graphs for the kinetic cidation are presented. The products are tabulated. The

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in Fig. 1 of polyary evolution was observ	on the Encl	losure. I roceeds vi , and H ₂ g art. has	t is conc a a homol ases. No 2 table	luded tha ytic chai inductions and 6 g	t the theri n rupture a n period for raphs.	ir are shown mooxidation decompanied be or the thermo	egradation y the oxidation
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Heteroorg	anic Compou	nds, AN SS	ENCL:	01			

KORSHAK, V.V.; VINOGRADOVA, S.V.; BASKAKOV, A.N.; VALETEKIY, P.M.

Synthesis of polyarylates based on 2,2-di-(4-hydroxy-3-methylphenyl) propane. Vysokom. soed. 7 no.9:1633-1636 S *65.

(MIRA 18:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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KORSHAK, V.V.; PAVLOVA, S.A.; TIMOFEYEVA, G.I.; VINOGRADOVA, S.V.; PANKRATOV, V.A.

Effect of the method of preparation and of the size of the side chain radical on the viscosometric properties of polyarylates. Vysokom.soed. 7 no.10:1679-1683 0 '65.

(MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

HURSHAK, V.V.; VINOGRADOVA, S.V.; PANKRATOV, V.A.

Synthesis and study of polyarylates based on 4,4*-dirhenyldicarboxylic acid and bisphenols with various substituents at the central carbon atom. Vysokom.soed. 7 no.10:1689-1692 0 165. (MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

KORSHAK, V.V.; MANUCHAROVA, I.F.; VINOGRADOVA, S.V.; PANKRATOV, V.A.

Investigation of the thermal stability of a number of polyarylates by differential thermal analysis. Vysokom.soed. 7 no.10:1813-1817 0 165. (MIKA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut obshchey i neorganicheskoy khimii AN SSSR.

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ACC NRI AP6001859 SOURCE (

SOURCE CODE: UR/0190/65/007/012/2048/2051

AUTHORS: Vinogradova, S. V.; Korshak, V. V.; Korzeneva, Tu. I.

ORG: Institute of Elemento-organic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy, AN SSSR)

TITLE: Kinetics of polycondensation of $\mu, \mu' - (\beta, \beta' - \text{dihydroxyethoxyphenyl}) - 2, 2 - \frac{1}{2}$ propane Abstracter's note: word "phenyl" is added to correct the error in the original title and $\mu, \mu' - (\beta, \beta' - \text{dihydroxypropoxyphenyl}) - 2, 2 - \text{propane with fumaric acid.} 79th report in the series On Heteropolyesters$

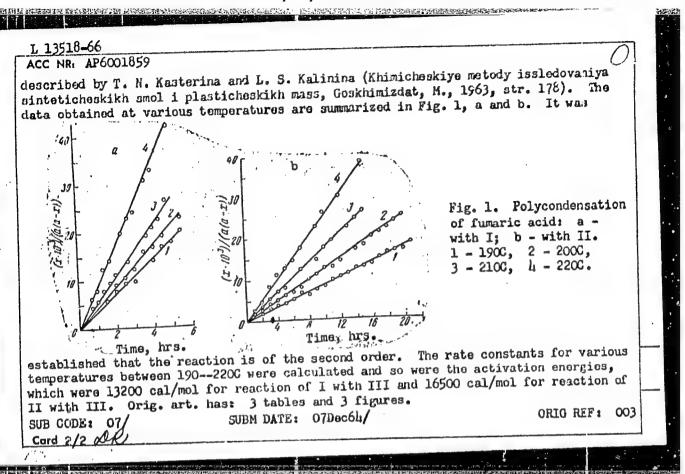
SOURCE: Vysokomolekulyarnyyo soyedineniya, v. 7, no. 12, 1965, 2048-2051

TOPIC TAGS: polycondensation, fumaric acid, polymerization kinetics, adhesive, polyester plastic

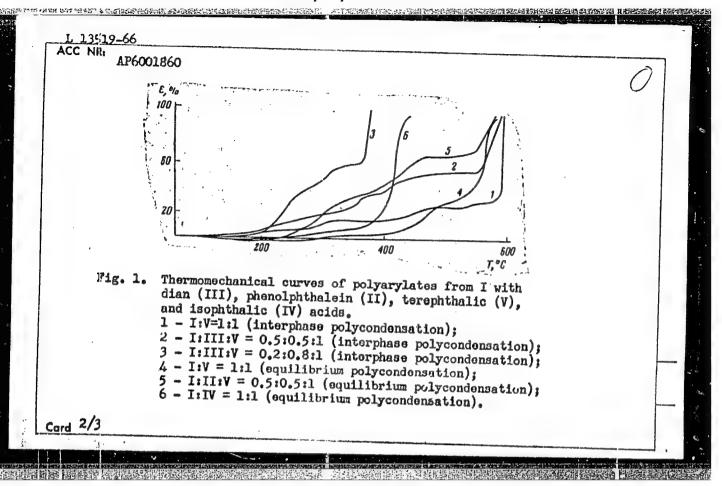
ABSTRACT: Kinetics of polycondensation of $l_i, l_i' - (\beta, \beta' - \text{dihydroxyphenyl}) - 2, 2-$ propane (I) and $l_i, l_i' - (\beta, \beta' - \text{dihydroxypropoxyphenyl}) - 2, 2-$ propane (II) with funaric acid (III) at 190--2200 was investigated. The reaction is of interest as it leads to formation of adhesives of high thermal resistivity and of high mechanical and insulatory properties which are required in the preparation of reinforced glass. This reaction was conducted with equimolar amounts of reagents in a molten state, in a stream of oxygen-free nitrogen. The progress was followed by determining oxygen number of the reaction mixture at various time intervals according to the method

Card 1/2

UDC: 541.64+678.574



ENT(m)/ENP(j)/T/ENA(c)/ETC(m) SOURCE CODE: UR/0190/65/007/012/2052/2056 ACC NR AUTHORS: Vinogradova, S. V.; Korshak, V. V.; Antonova-Antipova, I. P. ORG: Institute of Elemento-organic Compounds AN SSSR (Institut, elementoorganicheskikh soyedineniy AN SSSR) TITLE: Colored polyarylates of 4,41-dihydroxyazobenzene. 80th report in the series On Heteropolyesters SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2052-2056 TOPIC TAGS: polymer, polyaryl plastic, polycondensation, thermomechanical property ABSTRACT: Polyarylates of 4,41-dihydroxyazobenzene (I) with phenolphthalein (II), dian (III), isophthalic (IV), and terephthalic (V) acids were synthesized and their physical properties were investigated. Study of the effects of the dibasic paenol upon the structure of the product and of the azo group upon its color was of particular interest. Experimental work was performed using methods described by the authors in earlier publications (Vysokomolek. soyed., 6, 2174, 1964; 7, 322, 1965; 7, 1.543, 1965). It was found that polyarylates of I with IV and V do not melt but decompose above 4000. Thermomechanical curves (see Fig. 1) indicate that while polymers derived from I reacted with IV and V possess low deformation and high rigidity, but that introduction of II and III increases the former and lowers the latter property. The solubility of homopolyarylates of I in organic solvents may be Card 1/3



L 13519-66 ACC NR: AP6001860 increased by substituting a portion of I by II or III. Such solutions can be used for preparing strong, transparent yellow films which, when heated for several hours at 250C, still maintain up to 50% of their original tensile strength. Spectra of the products in the visible and UV regions are reported. Orig. art. has: 3 figures, and 4 tables. SUE CODE: 07/ SUEM DATE: 23Dec64/ ORIG REF: 003/ OTH REF: 003

KORSHAK, V.V.; VINOGRADOVA, S.V., doktor khim.nauk

Recent developments in the study of polyarylates. Vest.AN SSSR 35 no.6172-77 Je 165. (MIRA 18:8)

1. Institut elementoorganicheskilh soyedineniy AN SSSR. 2. Chlen-korrespondent AN ESSR (for Korshak).

KORSHAK, V.V.; VINOGRADOVA, S.V.; SILING, S.A.

Heat resistant films on a base of thermosetting polyacrylates. Knim. volok. no.3:16-19 *65. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR, Moskva (for Korshak, Vinogradova). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Siling).

KORSHAK, V.V.; VINOGRADOVA, S.V.; PANKRATOV, V.A.

Heterochain polyesters. Report 56: Fluorine-containing polyarylates. Izv. AN SSSR. Ser. khim. no.9:1649-1654 '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.

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ACCESSION NR: AP5019781

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541.6+539.238

AUTHOR:

Pankratov, V. A.; Korshak, V. V.;

Vinogradova, S. V. 14,56

TITLE: Synthesis of polyaryl esters of 2',7'-dihydroxyspiro[fluorene-9,9'-xanthene]

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1965, 1286-1288

TOPIC TAGS: polyaryl ester, heat resistant polymer, solubility

ABSTRACT: Homo- and co-polymeric polyaryl esters based on 2',7'-dihydroxyspiro[fluorene-9,9'-xanthene] have been prepared in an attempt to produce polyaryl esters having both heat resistance and good solubility in common organic solvents, and hence, better processability. The other reactants were terephthalic and/or isophthalic chloride and various bisphenols of the type

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ACCESSION NR: AP5019781

(where R₁ and R₂ are aliphatic, perfluorinated, and aromatic substituents) as well as hydroquinone and resorcinol. The polymers and copolymers had high softening points (320-370C) and good solubility in tricresol, tetrahydrofuran, and chlorinated hydrocarbons. The presence in the polymer repeat unit

of stable aromatic systems increases their thermal stability and suggests that they will also exhibit high radiation resistance. Orig. art. has: I table and 3 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy.of Sciences, SSSR)

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ENCL: 00 OTHER: 002 SUB CODE: OC.GC ATD PRESS: 4068

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EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RH L 2324-66 UR/0191/65/000/009/0016/0019 ACCESSION NR: AP5022222 678,673,01:536.495:537.311 44.55 V.; Fridman, Ye. I.; Andreyeva, M. A. AUTHOR: Vinogradova, S. V.; Korshak, V. Baraboshkina, L. N. wish Heat-resistant electroinsulating polyarylate plastic material SOURCE: Plasticheskiye massy, no. 9, 1965, 16-19 TOPIC TAGS: plasticizer, heat resistant plastic, heat resistant material, polyaryl plantic, terephthalic acid, electric insulator, plastic, heat resistance, polyarylate, phenolphthalein, bisphenol A. isophthalic acid, softening point

ABSTRACT: The possibility of preparing heat-resistant plastics suitable for electric insulators and capable of being compression molded was studied by preparing neat and mixed compositions from phenolphthalein isophthalate or terephthalate based polyarylates (i.e., aromatic polyesters). It was also attempted to prepare polymers which had to be kept at their melting temperature during compression molding for a minimum time. Thus, powdered poly(phenolphthalein isophthalate) could be compression molded at 270—300C into semitransparent light-brown samples of plastic designated as F-1, while the poly(phenolphthalein terephthalate), designated as plastic F-2, cracked

Card 1/2

L 2324-66

ACCESSION NR: AP5022222

and disintegrated after being taken out of the molds. The addition of plasticizers, "Sovol" [biphenol dichloride], a polysiloxane and some other polyarylates based on either bisphenol A or phenolphthalein sebacate, made it possible to prepare compression molded samples from F-2 with softening points from 255 to 340C. The addition of Sovol in varying amounts or the same polysiloxane to F-1 produced plastics with softening points between 250 and 285C. Even the sample with 10% Sovol still had a softening point of 230C, which was considered to be sufficiently high, combined with good workability of the material. The introduction of fillers (up to 40% by weight of the composition) was also studied for the purpose of reducing cracking of the plastic and to save polymer materials. Good results were obtained with quartz flour or talcum, while aluminum oxide or silica gel were ineffective. The filled F-2 polyarylate samples were resistant to thermal shock; they withstood repeated sharp temperature change from -60 to, 250C. The polyarylate compositions obtained had high dielectric properties in a rather wide range of temperatures. Orig. art. has: 4 figures and 4 tables. [BN]

ASSOCIATION: none

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ACCESSION NR: AP5025510

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AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Pankratov, V. A

TITLE: Heterochain polyesters. 56. Fluorinated polyarylates 15,444

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1649-1654

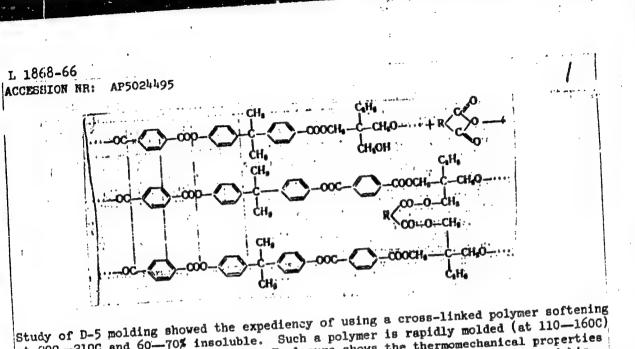
TOPIC TAGS: polymer, fluorinated polymer, polyester, polyarylate

ABSTRACT: The purpose of this work was to prepare homo- and heteropolyarylates from 2,2-bis-(4-hydroxyphenyl)-1,1,1,3,3,3-hexafluoropropane,72,2-bis-(4-hydroxyphenyl)-1,1,1-trifluoro-2-phenylethane with terephthalic, isophthalic, perfluoroadipic, and perfluorosebacic acids, and to investigate the properties of the polymers obtained. It was found that replacement of the methyl group at the central carbon atom of the diphenols by a trifluoromethyl group lowers the softening temperature of the homo- and heteropolyarylates obtained from them. Condensation of ω, ω, ω -trifluoroacetophenone with phenol yielded 2,2-bis-(4-hydroxyphenyl)-1,1,1-trifluoroacetophenone

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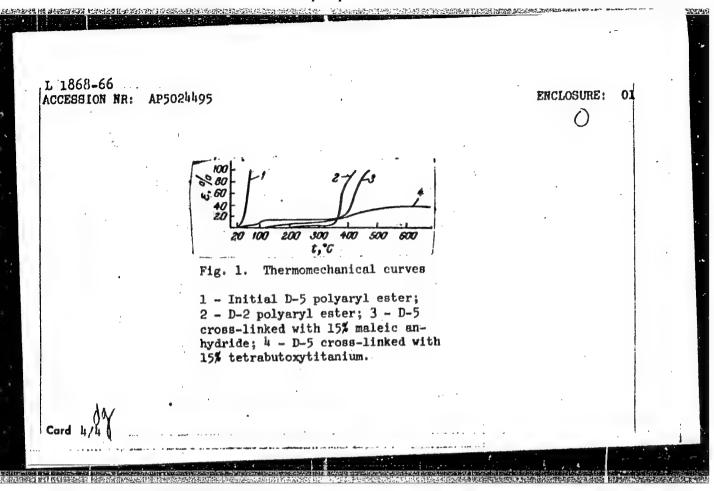
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TOPIC TAGS: poly	varyl ester, heat res	sistant plastic,	polyaryl plastic	
ABSTRACT: A stud	ly has shown that uni	filled or quartz	-filled cross-lin	ted D-5 pclyar
cover can be brod	sessed into end produ	ethyloloropene	D-5 Oprepared f	com terept thal
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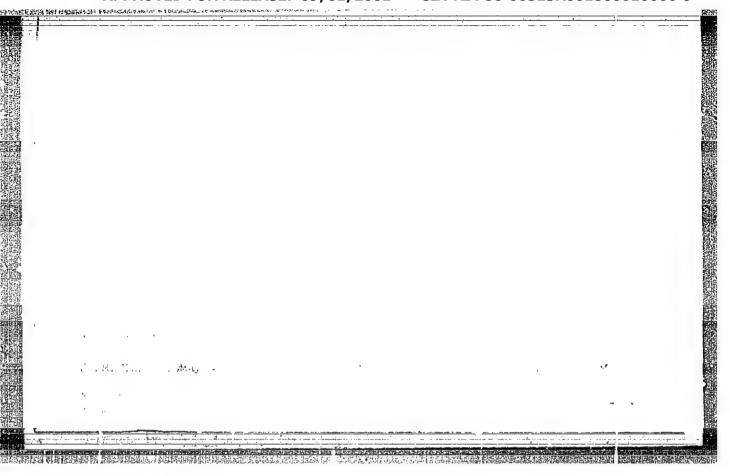


Study of D-5 molding showed the expediency of using a cross-linked polymer softening at 200—210C and 60—70% insoluble. Such a polymer is rapidly molded (at 110—160C) into solid products. Fig. 1 of the Enclosure shows the thermomechanical properties of D-5 and, for comparison, of D-2 polyaryl ester (from terephthalic acid and bisphenol A). As Fig. 1 indicates, cross-linking considerably improves heat resistance

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ACCESSION NR: AP5021600		/0286/65/000/013/0070,'0070'
東京大学の教育を表現しています。	ogradova, S. V.; Salazkin, S.	
TITLE: Preparative method for	or polyaryl esters. Class 39,	No. 172492
OURCE: Byulleten' izobrete	niy i tovarnykh znakov, no. 13	, 1965, 70
OPIC TAGS: polymerization	heat resistant polymer, polya	ryl ester
postmertageron,	men reproduce bordmer! borde	-3
BSTRACT: An Author Certific	cate has been issued for a prephenols and 4,4'-diphenylphtha	parative method for
BSTRACT: An Author Certific colyaryl esters based on bisphloride [sic].	cate has been issued for a pre	parative method for lide dicarboxylic acid
BSTRACT: An Author Certific colyaryl esters based on bisp chloride [sic]. SSOCIATION: none	cate has been issued for a pre	parative method for lide dicarboxylic acid
BSTRACT: An Author Certific colyaryl esters based on bisphloride [sic].	cate has been issued for a prephenols and 4,4'-diphenylphtha	parative method for lide dicarboxylic acid [SM]

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JIHOR: Korshak, V.	V.; Vinogradova, S. V	14,55 7, Korchevey, M. G.	
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TLE: Preparative Less 12, No. 172312		d copolymers of an acryli	e compount:
OURCE: Byulleten'	izobreteniy i tovarnyk	th znakov, no. 13, 1965, 1	.7
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OPIC TAGS: polymen olymer	r, polymerization, all	riphenol methacrylate, hes	it resistant
BSTRACT: An Author	r Certificate has been	issued for appreparative	method for acryli
alemane and conclu	mera of increased heat	resistance.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	INAOTAGS DITTY
olymerization of 2- nce of free radical	-allylphenol methacrylo l initiators [unspecif	ate at elevated temperatuded].	[SM]
SSOCIATION: none			
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L 1809-66 ENT(m)/EPF(c)/ENP(v)/ENP(j)/T RPL RM/WW

ACCESSION NR: AP5025026 UR/0286/65/000/016/0082/0082
678.673.7-13
677 521

AUIHOR: Korshak, V. V.; Vinogradova, S. V.; Korchevey, M.; Kul'chitskiy, V. I.

TITLE: Preparative method for copolymers of unsaturated allyl-substituted polyaryl esters. Class 39, No. 173936

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 82

TOFIC TACS: polyaryl ester, heat resistant polymer, cross linking

ABSTRACT: An Author Certificate has been issued for a preparative method for copolymers of unsaturated allyl-substituted polyaryl esters. The method involves

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copolymers of unsaturated allyl-substituted polyaryl esters. The method involves copolymerization of the appropriate polyaryl esters with cross-linking agents at elevated temperature in the presence of free radical initiators. To improve the heat and chemical resistance of the copolymers, the cross-linking agents used are tetrafunctional acrylic monomers, e.g., allyl methacrylate / 2-allylphenol methacrylate, or 4, 4'-isopropylidenediphenol methacrylate. The copolymers so prepared are suitable as binders in glass-reinforced plastics. [SM]

Card 1/2

L 1809-66
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ASEOCIATION: none
SUEMITTED: 23Nov64 ENCL: 00 SUB CODE: 0C, MT
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Thermal cross-linking of annaturates polyerylates contained allyl side groups. Vysokom. soed. 7 no.3:457-461 % 165.

(MIRA 18:7)

1. Institut elementeerganiches Urb soyedinenty & SSSR.

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OURCE: Vysokomoleku	lyernyye s oye dineni	yā, v. 7, no. 8, 196	5, 1406-1409	1
OPIC TANS: polymer, polymer.		es eveumise, bothami	de , copolymer, block	F .
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于中央企業的政治的政治。 1915年 - 1915年 -	A THE PERSON OF SECOND PROPERTY OF THE PERSON OF THE PERSO	Mouth Design Beneficial Control of the Control of t

L 1968-66 EWT(m)/EPF(c)/T/EVP(j) WW/RM ACCESSION NR: AP5022599 UR/0190/65/007/009/1543/1548 678.674 AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Antonova-Antipova, I. P Colored polyaryl esters/based on certain dihydroxyanthraquinones TITLE: SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1543-1548 TOPIC TAGS: polyaryl ester, polymerization color, heat resistant polymer ABSTRACT: To eliminate the dyeing step and to improve colorfastness, intrinsically colored polyaryl esters have been synthesized from dihydroxyanthraquinones, viz., alizarin, quinizarin, and quinizarin blue. Such starting materials were also of interest from the standpoint of the effect of repeat-unit structure on polymer properties, and because such polymers could be modified by treatment with metal salts. Homo- and co-polymeric polyaryl esters were prepared from the dihydroxyanthraquinones and terephthalic and isophthalic acids, and phenolphthalein by polycondensation in high boiling solvents. It was found that homo- and copolymeric polyaryl esters from quinizarin and terephthalic or isophthalic acids, and from alizarin blue and terephthalic acid have high softening points, e.g., 475-500C for the polymer from quinizarin and terephthalic acid. Copolymeric Cand 1/2

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LITH COTOL COMTO DE	ic solvents an were colored, modified by a	d could strong (dding th	be read: 800—120 e appror	ly cast from 10 kg/cm²) as	solution to form ad elastic (10—15%).	
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EOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1365, 1633-1636	ef v
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plasticization effect of the substituents. Cy Menie was carried out by in	terfucial,
and low- and high-temperature solution polycondensation. Isophthaloyl and	tererh-
Inaloy: chlorides and hydroquinone; resorcinol, and phenolphthalein were used to purpage home, and compulaments pulyway's estars. It was cound that it	ed with :
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L 3938-66		RM .		
	NR: AP5025956 Corshak, V. V.; Vinogradova,	S. V.; Pahkratov	UR/0190/65/007/010/16 541.64+678,674 H4,5 , V. A.	30
TITLE: Sy acid and	nthesis and investigation o diphenols with various subst	f polyarylates fr tituents at the co	om 4,4"-biphenyldicar entral carbon atom	boxylic
SOURCE: 1	ysokomolekulyarnyye soyedin	eniya, v. 7, no.	10, 1965, 1689-1692	
TOPIC TAGS	: polyester, plastic, poly	arylate		
polyarylat phenyl)pro phenylmeth	In the course of continuing es were prepared from bis-(4 pane, 2,2-bis-(4-hydroxyphenyl)mane, bis-(4-hydroxyphenyl)mane, bis-(4-h	4-hydroxypheny1)m nyl)hexafluoropro ethylphenylmothan	ethane, 2,2-bis-(4-hyc pane, bis-(4-hydroxyph e. bis-(4-hydroxypheny	droxy- nenyl)-
prenyi):iu properties of the sub	ylphenylmethane, bis-(4-hydrorene, and 4,4'-biphenyldicar of the polyarylates obtained stituent at the central carb characteristics of the poly	rboxylic acid. I ed depend to a la oon atom. The phy	t was found that the p rge extent on the natu vsical constants and t	hysical lre he Orig.
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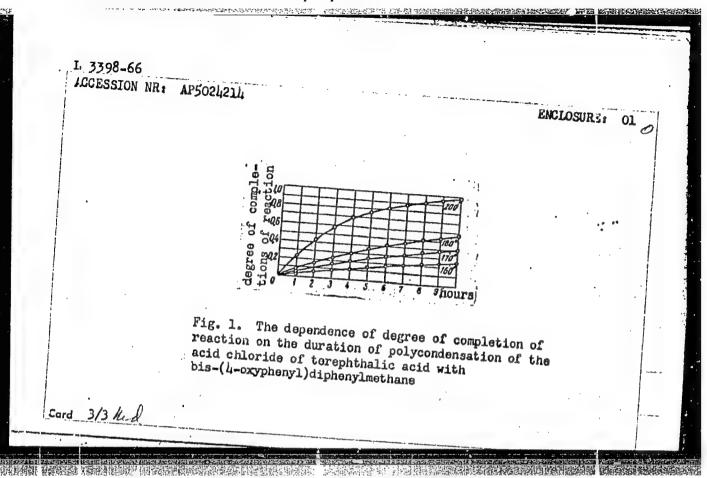
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ENT(m)/EPF(c)/ENP(1)/T/ETC(m) WW/RM L 3936-66 UR/0190/65/007/010/1313/1817 ACCESSION NR: AP5025968 678.01:54+678.67 111,5 Korshak, V. V.; Manucharova, I. F.; Vinogradova, S. V.; Pankratov, V. A. AUTHOR: 15.44.55 TIFLE: Investigation of the thermal stability of a series of polyarylates by differential thermal analysis SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1813-1817 TOPIC TAGS: polyarylate, plastic, polymer, thermal stability ABSTRACT: Polyarylates were prepared from diphenols and terephthalic acid and subjected to differential thermal analysis utilizing thermogravimetric methods. was found that the nature of the substituent at the central carbon of the diphenol (of the di-p-hydroxyphenylmethane type) exerts an appreciable influence on the thermal stability of the polyarylate. Thus, e.g., replacement of methyl groups at the central carbon atom by trifluoromethyl groups improves the stability of the polyarylate. The temperatures of incipient decomposition of the polyarylates investigated ranged from 375 to 465C. The most thermally stable polyarylate was obtained from 9.9-bis-(4-hydroxyphenyl)fluorene and terephthalic acid. Orig. art. [vs] hes: 2 tables and 5 figures. Card 1/2

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ACCESSION NR:	AP5024214	1135	UR/0020/65/164/003/0563/056
		Korshak, V. V. (Cor	responding member AN SSSR); %
ITLE: Invest	tigation of the k	imatian and an a	nsation of bisphenols with the
OURCE: AN SE	SSR. Doklady, v. 3	164, no. 3, 1965, 563	-566
PIC TAGS: polymer	oolycondensation,	terephthalic acid, b	isphenol, organic compound,
xyphenyl)-phe rifluoromethy hloride of te igated. The the nature	enylmethane, 2,2-b lphenylmethane, a rephthalic acid i purpose of the in of substituents a	is-(4-oxyphenyl)-2-p.nd bis-(4-oxyphenyl) n the temperature revestigation was the	bis-(4-oxyphenyl)-methane,)-hexafluoropropene, bis-(4- henylethane, bis-(4-oxyphenyl) -diphenylmethane with the acid gion from 160-200C was inves- letermination of the influence atom of bisphenols on the ed out in ditoluyl methane in a
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factors derived from Amproposed. It is conclu	l on the Enclosure). Energies or rhenius plots are tabulated.	A reaction mechanism is
o'moracutar, tageotous.	Orig. art. has: 2 tables, 3	belong to the slow class of graphs, and 2 formulas.
ASSOCIATION: Institut (Institute for Heteroon	elementoorganicheskikh soyedine rganic Compounds, Academy of Sci	eniy, Akademii nauk SSSR ienoes, SSSR) 44,55
SUBMITTED: 22Mar65	ENGL: O1	SUB CODE: OC, GC
NO REF SOV: 002	OTHER: 000	
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KORSHAK, V.V.; VINOGRADOVA, S.V.; SILING, S.A.

Synthesis and analysis of cross-linked polyarylates. Khim. volok. no.1:35-38 165. (MIRA 18.2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR (for Korshak, Vinogradova). 2. VNIIV (for Siling).

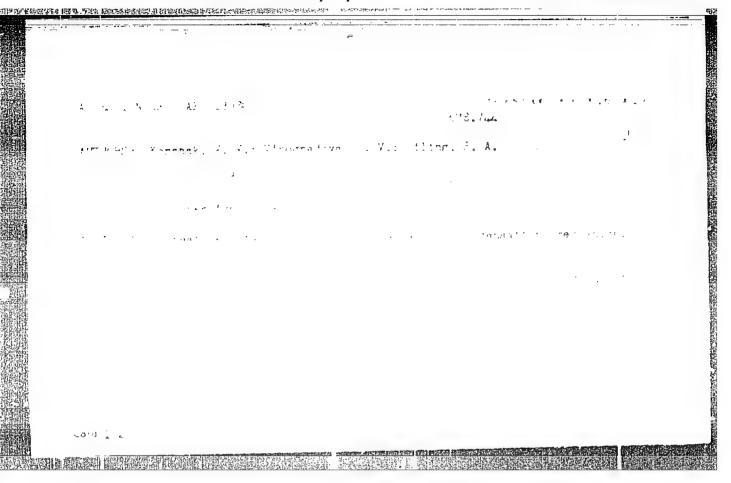
Rondmivizi, M.S.; million, V.S.; Vincontantivi, L.V.

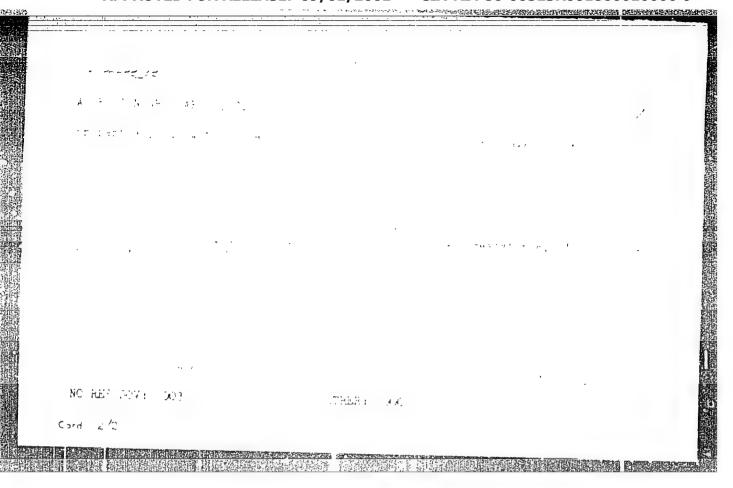
Block polymerization of some allyl and scryl monomers. Vylokom, soed.
7 no.1:150-155 Ja '65. (Miss. 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

Colored polyarylates based on 3,3'-azobenzenedicarboxylic acid. Vysokom. soed. 7 no.2:322-327 ? '65.

(MIRA 18:3)



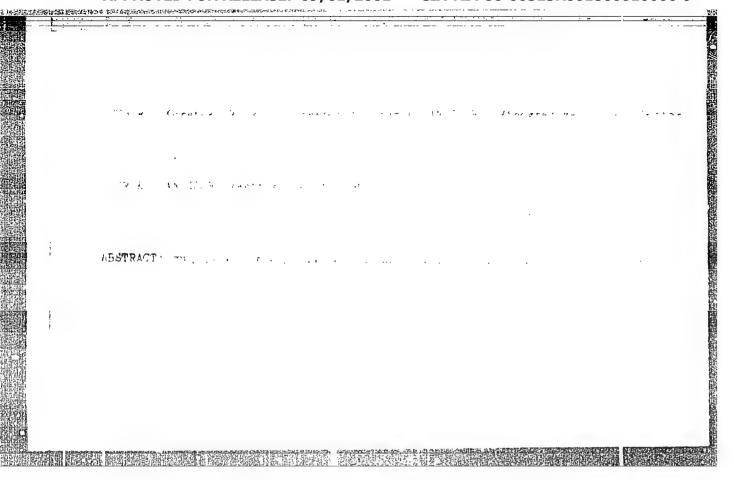


KOESBAK, V.V.; VINOGRADOVA, S.V.; SIMING, S.A.

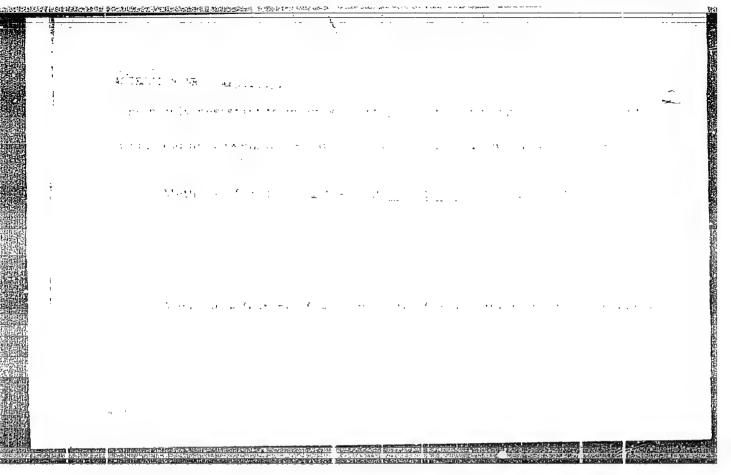
Structuration of polyarylates containing free hydroxyl groups in the chain. Vysokom. soad. 7 no.4:761-706 Ap '65.

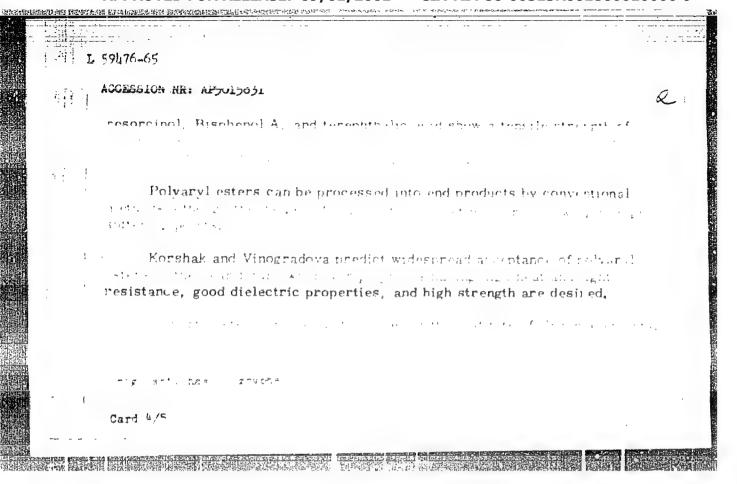
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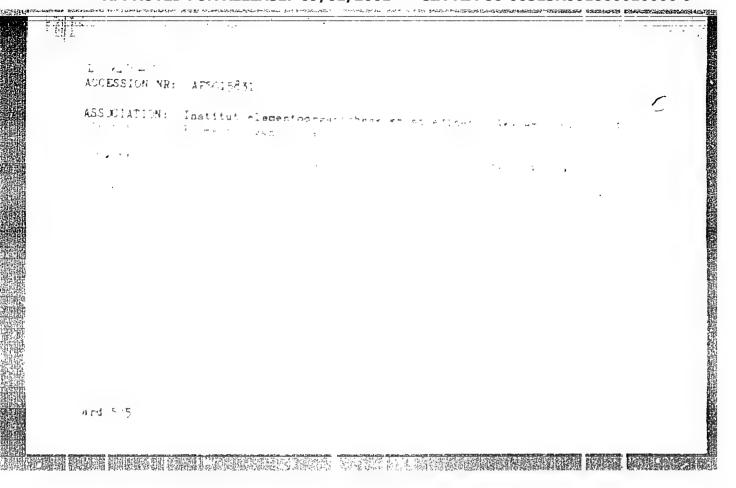
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ACCESSION NR: AP5015289

UR/0286/65/000/004/0067 '0067

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.; Vygod Giy, la. S.

TITLE: A method for obtaining polyarylates. Class 39, No. 170661

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 67

TOPIC TAGS: polyarylate, diphenyl chloride, dicarboxylic acid, phenol, polymer

ABSTRACT: This Author Certificate presents a method for obtaining polymylates by the condensation of chloranhydrides of dicarboxylic acids with two-atom phenols in solutions of a high boiling point solvent. To increase the molecular weight of the obtained polymer, to lower the amount of solvent used, and to simplify the ternique of separating the polymer, dipneral enforcing is used as the high ciling point solvent.

ASSOCIATION: none

SUEMITTED: 13Aug62

EMCL: 00

SUB CODE: OC

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OTHER: 000

ACCESSION No.: APS015295

JR/0286/65/000/004/0068/0068

AUTHORS: Korahak, V. V.; Rafikov, S. R.; Vinogradova, S. V.; Fomins Z. Ye.

TITLE: A method for obtaining iniform and mixed polyarylates. Class 3 , No. 1700c7 4

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 68

TOPIC TAGS: polyarylate, chloranhydride, phenol, dicarboxylic acid, ultraviolet light, diphenol, sulfophthalein

ABSTRICT: This Author Certificate presents a method for obtaining uniform and mixed polyarylates based on chloraphydrides of dicarboxylic acids and ?-atom phenols. To obtain polyarylates stable unior the action of ultraviolet rays, / diphenols containing sulfo-groups, such as culfophthalein, are used as 2-atom phenols.

ASSOCIATION: none

SUPPLITED: 08Jun64

ENCL: 00

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1	AUTHOR: Vinogradova, S. V.; Korshak, V. V.; Vygodskiy, Ya. S. TITLE: A method for producing aromatic polyamides Class 39, 40 17155	, =	B
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 76		
i	TOPIC TAGE: polyamide polymer, aromat. diamine, aromatic polyamide		
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KORSHAK, V.V.; SIDCROV, T.A.; VINOGRALOVA, S.V.; KOMAROVA, L.1.; VALETSKIY, P.M.; LEBEDEVA, A.S.

Heterochain complex polyesters. Report No.52: Determination of double bonds in unsaturated polyarylates by infrared spectroscopy. Izv. AN SSSR Ser. khim. no.2:261-268 165.

(MIRA 18:2)

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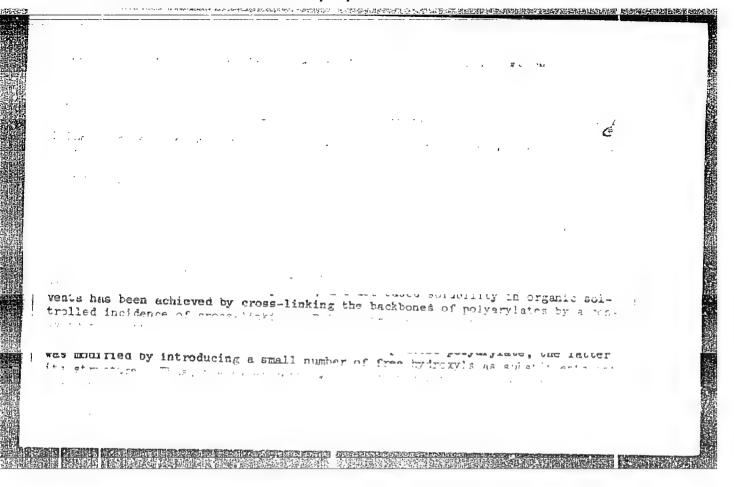
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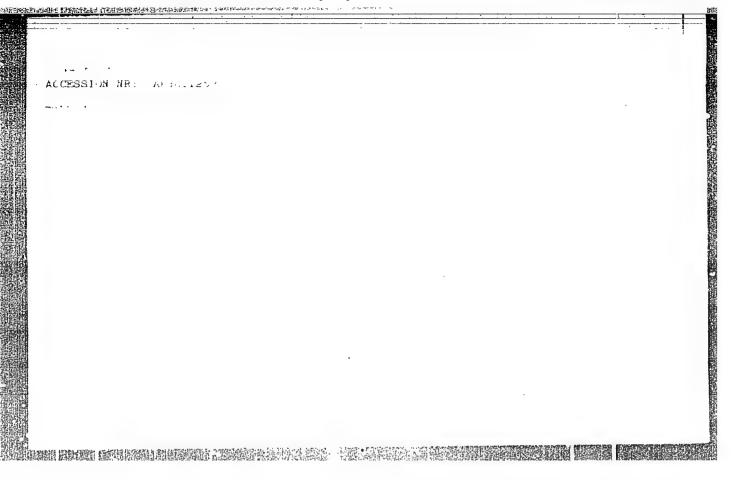
PANKRATOV, V.A.; VINOGRADOVA, S.V.; FEDOROVA, R.D.

Heterochain polyesters. Report No.63: Synthesis and investigation

of the new types of polyarylates based on 2,2-bis-(4-hydroxyphenyl)-2-phenylethane. Izv. A SSSR. Ser. khim. no.2:342-348 165.

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.





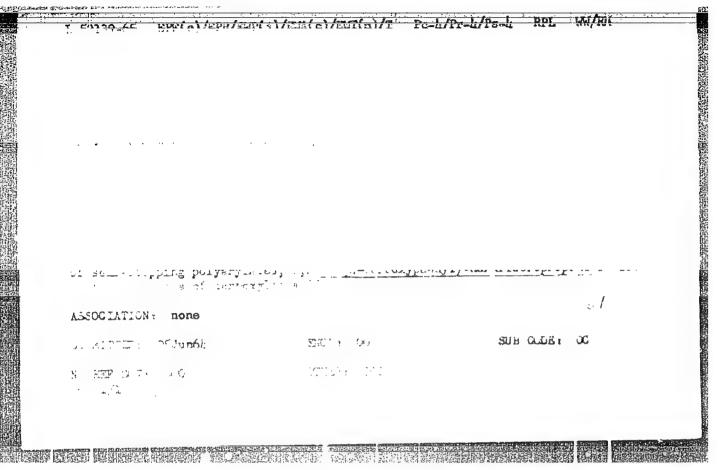
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KORSHAK, V.V.; PATIOVA, S.A.; TIMOFEYETA, G.I.; VINOGEGETATA, S.V.; IAM SALCY, V.A.

Influence of the steric factor on the Viscosimetric properties and polydispersity of polyarylates. Dokl. AN SSSR 160 nc.1:119-122

Ja *65. (MIFA 18:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Korshak).



ROMSHAR, 1.7.; VINOSTANOVA, S.V.; VINOSTADOV, N.C.

Ring formation in beryillum polyscharyl distribute solution.

Vyscham, soed. 6 no.11:1987-1991 E V.Z. (MIRA 18:2)

1. Institut elementrorganicheskikh soyedineniy AN SSSR.

VINOGRADOVA, S.V.; KORSHAK, V.V.; SALAZKIN, S.N.; BEREZA, S.V.

Heterochain polyesters. Part 60: Polyarylater based on phenolphthalein anilide. Vysokom.soed. 6 no.8:1403-1406 Ag 164.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(MIRA 17:10)

VINOGRADOVA, S.V.; KORSHAK, V.V.; SALAZKIN, S.N.; BEREZA, S.V.

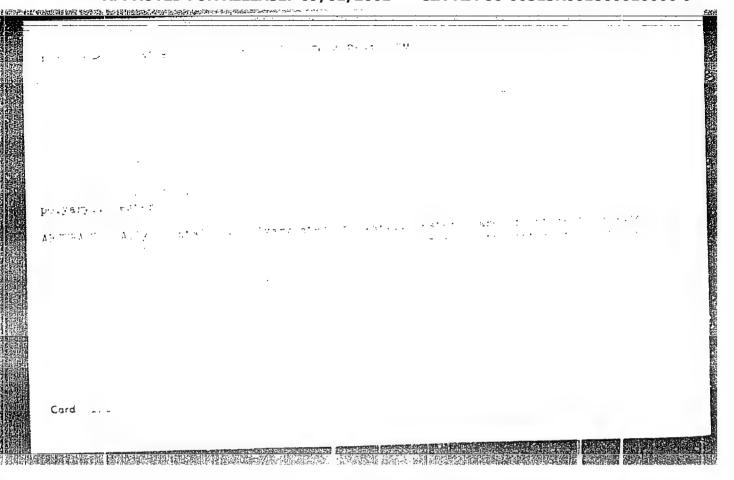
Heterochain polyesters. Part 41: Synthesis of polyerylates of phenol-phthalein anilide by interfacial polycondensation. Vysokom.soed. 6 no.9:1555-1558 S *64. (MIRA 17:10)

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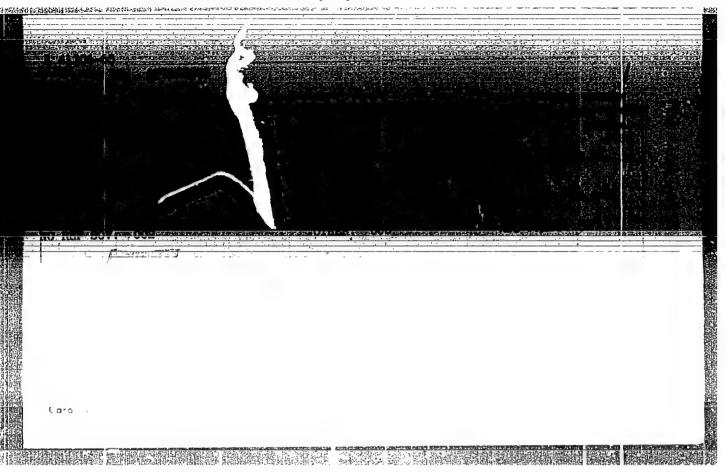
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(malting point * 83.5-Al.50). This modern tolored yellow, was used as initial material for producing synthetic polyarylates. But nearly selected to be readily soluble in the selected selected with phenolophinal sin, both were found to be readily soluble in the selected sel



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AKUTIN, M. S.; KORSHAK, V. V.; RODIVILOVA, L. A.; VINOGRADOVA, S. V.;
BUINITSKIY, Tu. M.; VALETSKIY, P. M.; LEBEDRVA, A. B.; Printmali
uchastiys: BONDAREVA, Te. A., laborant; RESHETMIKOVA, L. M.,
laborant; KOVALEVA, T. G., laborant
New data on the processing and properties of polyarylates.
Plast. massy no.11:20-26 '62. (MIRA 16:1)

(Esters) (Condensation products(Chemistry))

KORSHAK, V.V.; VINOGRADOVA, S.V.; U BAN-YUAN' [Wu Pang-yuan]

Heterochain polyesters. Report No.50: Structure of polyamidoarylates obtained by interfacial polycondensation. Izv. AN SSSR Ser. khim. no.7:1288-1292 Jl '64.

Heterochain polyesters. Report No.51: Polyamidoarylates and polyarylates based on acid chloride of bis-(p-carboxyphenyl) -methylphosphine oxide. Izv. AN SSSR Ser. khim. no.7:1292-1295
Jl '64. (MIRA 17:8)

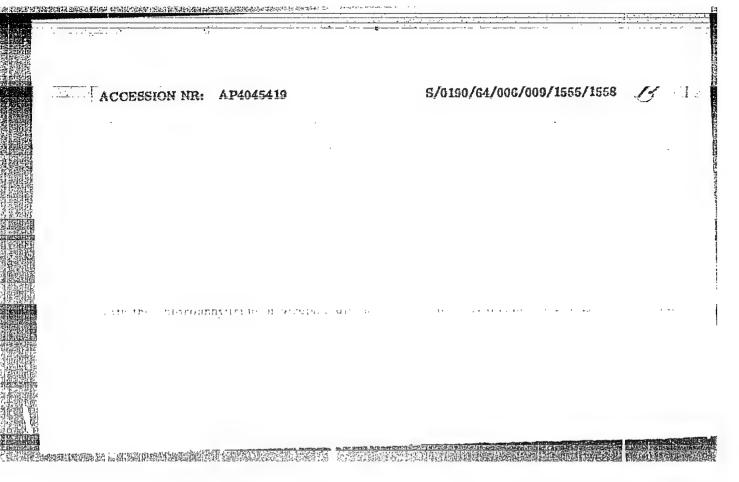
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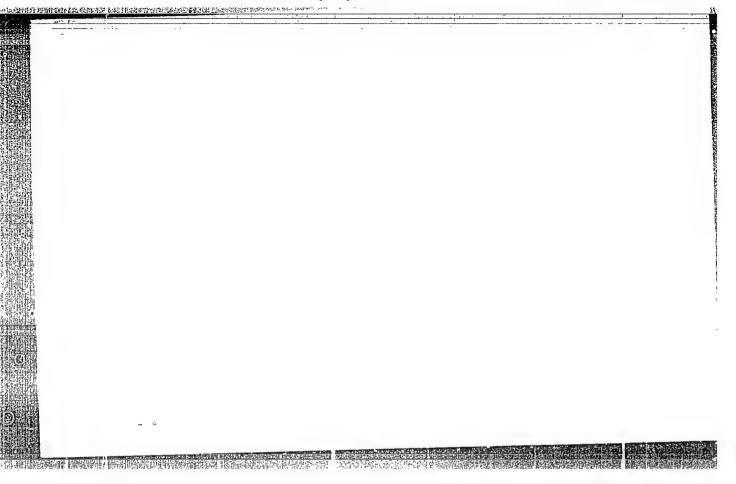
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KORSHAM, V.V.; VINOGRADOVA, S.V., PARAVA, G.Sh.; TSISEARI BEZILI, F.D.

Study of mixed block polyarylates. Dokl. AN DESK 156 no. 2: (MIRA 17.7)

1. Institut elementoorganicheskikh sojedineniy AN SYSR i York khimii imeni Melikishvili AN Gruzinskoy SSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

TEPLYAKOV, M.M.; KORSHAK, V.V.; VINOGRALOVA, S.V.

Exchange reaction between polyamide and polyarylate. Izv.AN SSSR. Ser.khim. no.2:334-349 F 164. (MIRA 17:3)

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l. Institut elementoorganicheskikh soyedineniy AN SSSR 1 Moskovskiy khimiko-tekhnologicheskiy institut im. $D_{\bullet}I_{\bullet}Mendeleyeva_{\bullet}$

ACCESSION NR: APLO3257L

8/0190/64/006/004/0729/0733

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Vinogradov, M. G.

TITLE: Studies in coordination polymers. 19. Exchange reactions in the polycoordination process

SOURCE: Vy*sokomolek. soyedin., v. 6, no. 4, 1964, 729-733

TOPIC TAGS: coordination polymer, polycoordination process, acetoacetyl diphenyloxide, beryllium acetylacetonate, polycoordination exchange reaction, Huggins equation, Huggins constant, high molecular fraction, low molecular fraction

ABSTRACT: In order to study the exchange reactions it was necessary to produce polymer fractions differing considerably in molecular weight. This was achieved by fractionating a polymer synthesized from h,h'-bis-(acetoacetyl)diphenyloxide and beryllium acetylacetonate in solution, at 160C, in vacuum, as described in an earlier paper by the authors (Vy*sokomolek. soyed., 5, 1771, 196h). The fractionation of the polymer was conducted by methanol precipitation from a 1% dimethylformamide solution. Fourteen fractions were isolated, and the specific viscosities of these and of the nonfractionated polymers were determined in 0.5% dimethylformamide.

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amide solutions. Values of 0.30-0.80 were obtained. They matched closely the 0.31-0.80 range for specific viscosities calculated by the Huggins equation. The study of the exchange reactions taking place during the polycondensation process was conducted on a mixture of high-molecular fraction of the polymer with a low-molecular fraction. The latter polymer was obtained under conditions of excess beryllium acetylacetonate and contained no terminal free enolic groups. The experiment was conducted in a 25% dimethylformamide solution. The viscosity of the mixture of the two fractions was determined after heating the mixture to 1000 for periods up to 10 hours. It was found that the molecules of the polymer interacted at a rate of approximately the same order of magnitude as the rate of their growth from the issuing materials. It is concluded that the reaction of polycoordination of 4,41-bis-(acetoacetyl)diphenyloxide and beryllium acetylacetonate is a process of balanced polycondensation. Orig. art. has: 3 charts, 1 table, and 1 formula.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds, AN SSSR)

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KORSHAK, V.V.; VINOGRADOVA, S.V.; LEBEDEVA, A.S.; Prinimala uchastiye RESHETNIKOVA, L.D.

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